INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/34258

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : B65G 43/00 US CL : 198/323 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 198/323, 322, 502.4, 810.01 and 810.02					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category * Citation of document, with indication, where appropriate, of the relevant passages			Relevant to claim No.		
Α	US 4,765,456 A (Bower) 23 August 1988 (23.08.1988), all			1-23	
A	A US 5,076,568 A (de Jong et al) 31 December 1991 (31.12.1991), all			1-23	
A	A US 5,090,551 A (Yasuhara et al) 25 February 1992 (25.02.1992), all		92), all	1-23	
Further documents are listed in the continuation of Box C. See patent family annex. Second exteriories of cited documents: "T" later document published after the international filing date or property.					
* 5	"A" document defining the general state of the art which is not considered to be of particular relevance "B" earlier application or patent published on or after the international filing date			ocument published after the international filing date or priority ad not in conflict with the application but cited to understand the	
			principle or theory underlying the inv	ention	
			document of particular relevance; the considered novel or cannot be consid when the document is taken alone		
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art		
	at referring to an oral disclosure, use, exhibition or other means				
"P" document published prior to the international filing date but later than the "&" priority date claimed			document member of the same pater		
Date of the actual completion of the international search		Date of mailing of the international search report			
21 April 2004 (21.04.2004)		23 JUN 2004			
Name and mailing address of the ISA/US			Authorized officer		
Mail Stop PCT, Attn: ISA/US			Voseph Valenza		
P.O. Box 1450			\'. /		
Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230 Telephone No. 703-308-2577					